



CALIFORNIA

Agricultural Bulletin

EDD Employment
Development
Department
State of California

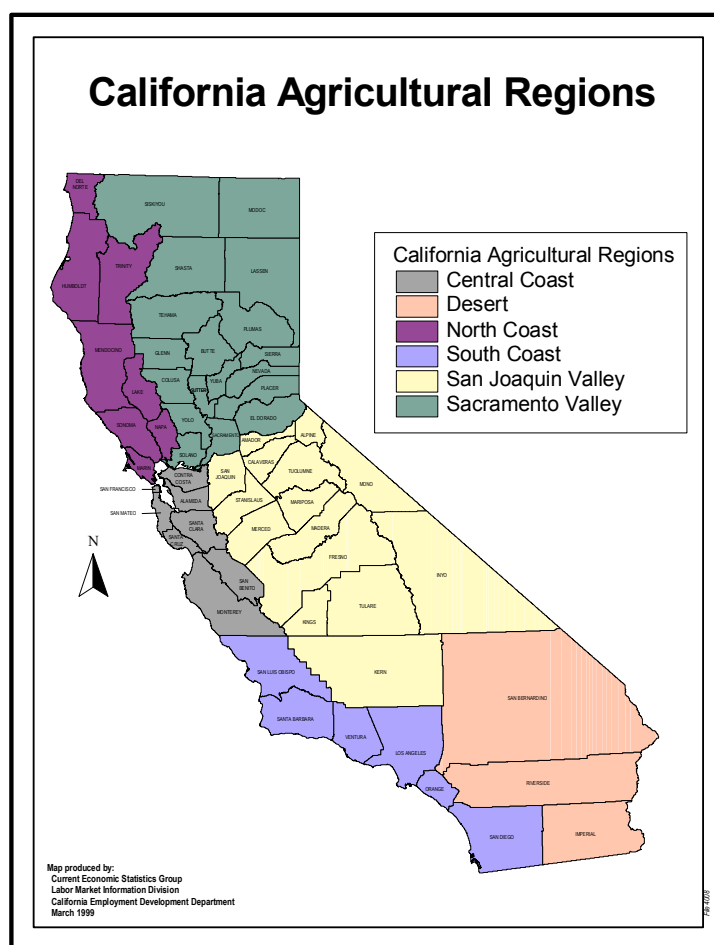
March 2002
(Internet Version)

Agricultural Overview

In This Issue

Agricultural Overview	1
Summary	2
Agricultural Summary Charts	3
California Employment	4
Central Coast Employment	5
Desert Employment	6
North Coast Employment	7
South Coast Employment	8
San Joaquin Valley Employment	9
Sacramento Valley Employment	10
Data Notes	11

This bulletin covers 27 agricultural industries in the State of California. The number of industries ranges from five to seventeen within each of the six geographic regions. The regions are the San Joaquin Valley, South Coast, Desert, Central Coast, Sacramento Valley, and North Coast (refer to map for details).



The data are organized into the following tables by state and region:

- Wage and Salary Workers
- Average Hourly Earnings

LMID
Labor Market Information Division
"Your Information Source"

Summary

Employment

California's total agricultural employment for March 2002 increased 9,700 jobs over the previous month, a gain of three percent. Total Agricultural Production increased 6,900 jobs from February 2002 to March 2002, a gain of five percent. Agricultural Services increased by 2,800 jobs, a gain of two percent. Increases in both Agricultural Production and Agricultural Services from February to March are normal. The change in California agricultural employment from February 2001 to March 2001 was an increase of 15,600 jobs.

Farm Labor Contractor Services registered the largest increase for March with a gain of 5,000 jobs. Another significant increase was registered in Berry crops where 2,900 jobs were added. The largest decrease for the month was seen in Grape crops with a decline of 3,600 jobs. Total agricultural employment increased 25 percent in the Central Coast Region, 21 percent in the Sacramento Valley Region, 15 percent in the South Coast Region, and seven percent in the Desert Region. Agricultural employment decreased nine percent in the North Coast Region and seven percent in the San Joaquin Valley Region.

Production and Crop Activity

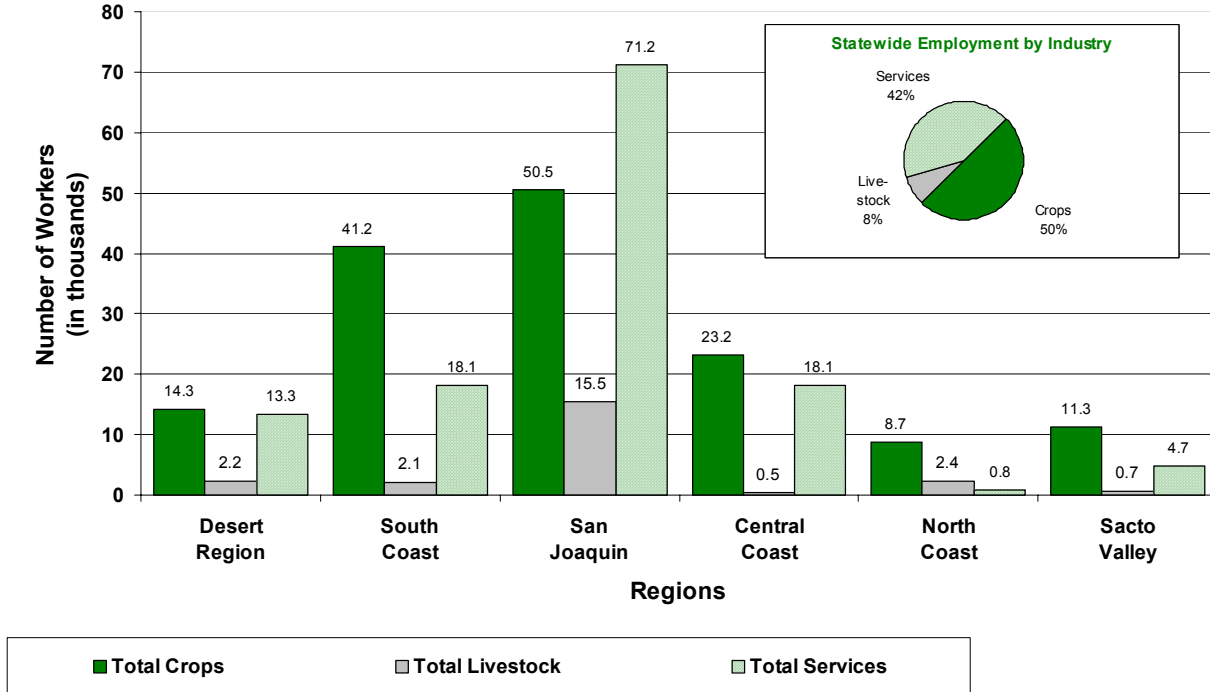
Cotton growers continued pre-plant irrigation and herbicide treatments. Cotton planting was not yet underway, as soil temperatures remain too low. Some alfalfa hay fields were cut and windrowed. A few alfalfa fields were treated for weevils. Many small grain fields were irrigated and treated for weed control. Wheat, oat, and barley fields were irrigated and fertilized. Harvesting of grain fields planted for winter forage continued in several locations. Some growers green chopped oats that were in the soft dough stage. Ground preparation was in full swing for the planting of grain and silage corn. Sugar beet planting continued; many growers drilled in granular insecticides at planting. Sugar beet growers employed mylar scarecrows and hazing to deter Horned Larks from eating young sugar beet plants. Preparation of rice fields was underway; herbicide treatments were applied. Burning of rice stubble was nearly completed. Colder weather slowed growth of some vegetables, and also delayed planting and harvesting activities. Although tomato planting continued, most growers were utilizing transplants. Ground preparation continued, also, in fields intended for melons. Protective hot caps were placed on squash, eggplant and pepper plants. Spinach, broccoli, and cauliflower harvesting continued. The lettuce harvest began in Fresno County as a few early fields reached maturity. Asparagus harvesting in the Stockton Delta area progressed slowly due to cool weather although Southern California's asparagus harvest was nearly completed. Other vegetables harvested were: basil, cabbage, carrots, celery, cilantro, collard greens, daikon, green onions, mint, mustard greens, parsley, radishes, radicchio, turnips, and squash.

Seasonal cultural activities including weed control, cultivation and irrigation continued in orchards and vineyards. New orchards and vineyards were planted where older plantings had been removed. Bloom sprays were applied to deciduous trees to prevent fungal diseases. Grape growers irrigated, shredded brush, mowed cover crops, cultivated, and applied herbicide applications in vineyards. Pruning and tying continued in a few vineyards. Navel orange harvesting continued; sprays to control fungus were applied in some areas. The harvest of early variety Valencia oranges continued in some Tulare and Kern County orchards. Grapefruit picking was ongoing in the desert and in the San Joaquin Valley. Lemons and Minneola tangelos were also picked. Nut growers performed seasonal cultural activities such as pruning, irrigating and spraying trees. Some older almond trees were removed. Brush removal and shredding continued.

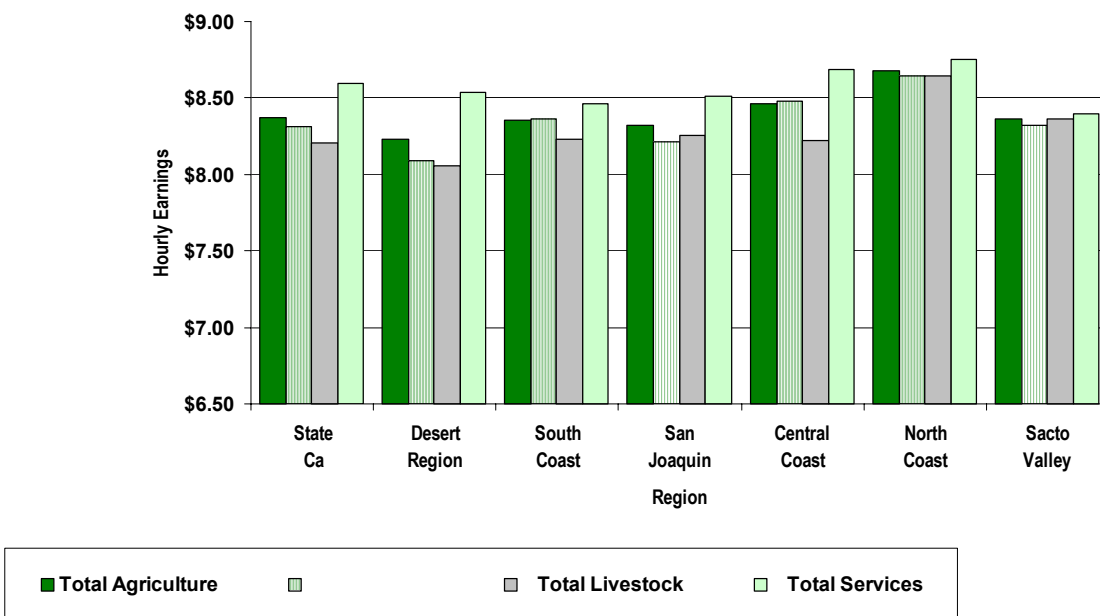
A few early new crop lambs were shipped to market for the Easter holiday. Some sheep were move from central California areas as grasses dried. Bee activity was ongoing in stone fruit and cherry orchards.

Agricultural Summary Charts

Wage and Salary Workers



Average Hourly Earnings



CALIFORNIA AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	298.8	289.1	310.7
Total Agricultural Production/Crops	149.2	144.8	160.3
Cash Grains	5.1	1.1	2.1
Rice	1.1	0.6	1.1
Other Cash Grains	4.0	0.5	1.0
Field Crops Except Grains	10.1	7.9	8.6
Cotton	2.7	3.0	4.4
Other Field Crops	7.4	4.9	4.2
Vegetables and Melons	29.8	28.5	26.4
Total Fruits and Tree Nuts	59.6	60.7	66.4
Berries	10.5	7.6	14.7
Grapes	25.2	28.8	29.7
Tree Nuts	6.1	7.1	7.1
Citrus Fruits	1.3	2.1	3.8
Deciduous Tree Fruit	2.8	2.4	5.7
Other Fruits & Nuts	13.7	12.7	5.4
Total Horticultural Specialties	29.7	31.0	36.8
Ornamental Floral & Nursery	26.7	28.5	33.4
Food Crops Grown Under Cover	3.0	2.5	3.4
General Farm Primarily Crop	14.9	15.6	20.0
Agricultural Production/Livestock	23.4	20.9	28.6
Beef Cattle Feed Lots	1.2	1.1	0.8
Beef Cattle Except Feed Lots	1.8	2.1	3.4
Dairy Farms	11.6	12.0	16.4
Chicken Eggs	2.5	3.0	2.3
Turkey & Turkey Eggs	2.9	0.1	0.9
Other Livestock	3.4	2.6	4.8
Total Agricultural Services	126.2	123.4	121.8
Soil Preparation Services	0.7	0.8	1.2
Crop Services	32.2	34.4	34.3
Plant Cultivate & Protection	4.1	4.1	4.9
Harvest Primarily by Machine	1.9	1.6	3.7
Preparation Services for Market	25.6	27.8	24.9
Cotton Ginning	0.6	0.9	0.8
Total Farm Labor & Management	93.3	88.2	86.3
Farm Labor Contractors	82.7	77.7	76.7
Farm Management Services	10.6	10.5	9.6

Average Hourly Earnings (In dollars per hour)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	8.37	8.36	8.19
Total Agricultural Production/Crops	8.31	8.32	8.09
Cash Grains	8.39	8.52	8.30
Rice	8.53	8.62	8.59
Other Cash Grains	8.25	8.42	8.00
Field Crops Except Grains	8.41	8.34	8.04
Cotton	8.38	8.21	7.98
Other Field Crops	8.44	8.47	8.11
Vegetables and Melons	8.45	8.38	8.01
Total Fruits and Tree Nuts	8.22	8.18	7.87
Berries	8.04	8.15	7.52
Grapes	8.36	8.35	7.86
Tree Nuts	7.97	8.08	7.86
Citrus Fruits	8.41	8.16	7.94
Deciduous Tree Fruit	8.08	7.95	7.77
Other Fruits & Nuts	8.46	8.42	8.30
Total Horticultural Specialties	8.25	8.31	8.26
Ornamental Floral & Nursery	8.44	8.37	8.25
Food Crops Grown Under Cover	8.06	8.25	8.27
General Farm Primarily Crop	8.18	8.17	8.04
Agricultural Production/Livestock	8.21	8.17	8.05
Beef Cattle Feed Lots	8.15	8.17	8.07
Beef Cattle Except Feed Lots	8.33	8.37	8.25
Dairy Farms	8.55	8.52	8.63
Chicken Eggs	7.84	7.82	7.44
Turkey & Turkey Eggs	7.92	7.84	7.64
Other Livestock	8.45	8.32	8.28
Total Agricultural Services	8.60	8.59	8.42
Soil Preparation Services	8.69	8.76	8.26
Crop Services	8.75	8.71	8.73
Plant Cultivate & Protection	8.73	8.60	8.53
Harvest Primarily by Machine	8.74	8.65	8.95
Preparation Services for Market	8.37	8.25	8.10
Cotton Ginning	9.17	9.32	9.35
Total Farm Labor & Management	8.35	8.32	8.27
Farm Labor Contractors	8.13	8.08	8.10
Farm Management Services	8.57	8.56	8.45

CENTRAL COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	41.8	33.4	41.1
Total Agricultural Production/Crops	23.2	19.3	24.3
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	2.5	0.9	0.3
Cotton	0.0	0.0	0.0
Other Field Crops	2.5	0.9	0.3
Vegetables and Melons	8.0	6.7	9.4
Total Fruits and Tree Nuts	4.2	4.4	3.7
Berries	1.9	1.3	2.2
Grapes	0.3	0.3	1.1
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.1	0.1	0.2
Other Fruits & Nuts	1.9	2.7	0.1
Total Horticultural Specialties	7.4	6.7	9.8
Ornamental Floral & Nursery	5.3	4.6	7.7
Food Crops Grown Under Cover	2.1	2.1	2.1
General Farm Primarily Crop	1.1	0.6	1.1
Agricultural Production/Livestock	0.5	0.5	1.0
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.0	0.3
Dairy Farms	0.4	0.3	0.1
Chicken Eggs	0.0	0.1	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.1	0.1	0.4
Total Agricultural Services	18.1	13.6	15.8
Soil Preparation Services	0.3	0.2	0.2
Crop Services	5.1	4.6	5.2
Plant Cultivate & Protection	0.0	0.0	0.7
Harvest Primarily by Machine	1.0	0.7	0.8
Preparation Services for Market	4.1	3.9	3.7
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	12.7	8.8	10.4
Farm Labor Contractors	10.2	6.3	9.2
Farm Management Services	2.5	2.5	1.2

na = not available

Average Hourly Earnings (In dollars per hour)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	8.46	8.39	8.23
Total Agricultural Production/Crops	8.48	8.39	8.28
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	8.53	8.46	8.25
Cotton	na	na	na
Other Field Crops	8.53	8.46	8.25
Vegetables and Melons	8.72	8.75	8.22
Total Fruits and Tree Nuts	8.44	8.30	8.27
Berries	8.64	8.38	7.92
Grapes	8.35	8.38	8.03
Tree Nuts	na	na	8.57
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.12	8.00	8.28
Other Fruits & Nuts	8.66	8.44	8.53
Total Horticultural Specialties	8.50	8.33	8.46
Ornamental Floral & Nursery	8.52	8.32	8.63
Food Crops Grown Under Cover	8.47	8.34	8.28
General Farm Primarily Crop	8.20	8.13	8.21
Agricultural Production/Livestock	8.22	8.00	8.00
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	na	8.29
Dairy Farms	8.49	8.48	8.63
Chicken Eggs	na	7.82	7.44
Turkey & Turkey Eggs	na	na	7.64
Other Livestock	7.95	7.69	7.98
Total Agricultural Services	8.69	8.78	8.43
Soil Preparation Services	8.85	8.94	8.26
Crop Services	8.71	8.75	8.60
Plant Cultivate & Protection	na	na	8.22
Harvest Primarily by Machine	8.91	8.96	9.17
Preparation Services for Market	8.50	8.54	8.41
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.51	8.65	8.42
Farm Labor Contractors	8.20	8.41	8.22
Farm Management Services	8.81	8.89	8.61

DESERT AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	29.8	27.8	37.8
Total Agricultural Production/Crops	14.3	10.9	15.6
Cash Grains	0.0	0.0	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.1
Field Crops Except Grains	1.4	1.5	1.3
Cotton	0.0	0.0	0.1
Other Field Crops	1.4	1.5	1.2
Vegetables and Melons	3.6	2.7	3.9
Total Fruits and Tree Nuts	5.6	3.5	5.6
Berries	0.0	0.0	0.1
Grapes	4.1	0.8	3.7
Tree Nuts	0.2	0.2	0.1
Citrus Fruits	0.1	0.8	0.6
Deciduous Tree Fruit	0.3	0.3	0.1
Other Fruits & Nuts	0.9	1.4	1.0
Total Horticultural Specialties	1.3	0.9	1.6
Ornamental Floral & Nursery	1.0	0.9	1.5
Food Crops Grown Under Cover	0.3	0.0	0.1
General Farm Primarily Crop	2.4	2.3	3.1
Agricultural Production/Livestock	2.2	2.6	5.6
Beef Cattle Feed Lots	0.3	0.4	0.3
Beef Cattle Except Feed Lots	0.0	0.5	0.5
Dairy Farms	1.1	0.8	3.0
Chicken Eggs	0.4	0.4	1.2
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.4	0.5	0.6
Total Agricultural Services	13.3	14.3	16.6
Soil Preparation Services	0.1	0.1	0.1
Crop Services	3.6	3.9	4.5
Plant Cultivate & Protection	0.3	0.3	0.4
Harvest Primarily by Machine	0.1	0.1	0.7
Preparation Services for Market	3.1	3.3	3.1
Cotton Ginning	0.1	0.2	0.3
Total Farm Labor & Management	9.6	10.3	12.0
Farm Labor Contractors	9.0	10.2	10.9
Farm Management Services	0.6	0.1	1.1

Average Hourly Earnings (In dollars per hour)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	8.23	8.25	8.07
Total Agricultural Production/Crops	8.09	8.21	7.86
Cash Grains	na	na	8.00
Rice	na	na	na
Other Cash Grains	na	na	8.00
Field Crops Except Grains	8.38	8.67	8.00
Cotton	na	na	8.10
Other Field Crops	8.38	8.67	7.89
Vegetables and Melons	8.27	8.25	7.77
Total Fruits and Tree Nuts	8.02	8.07	7.66
Berries	na	na	7.66
Grapes	7.90	7.93	7.47
Tree Nuts	7.74	8.03	7.15
Citrus Fruits	8.29	8.09	7.89
Deciduous Tree Fruit	7.61	7.73	7.25
Other Fruits & Nuts	8.55	8.58	8.51
Total Horticultural Specialties	7.88	8.13	8.01
Ornamental Floral & Nursery	8.12	8.13	7.74
Food Crops Grown Under Cover	7.63	na	8.27
General Farm Primarily Crop	7.90	7.94	7.76
Agricultural Production/Livestock	8.06	8.04	7.93
Beef Cattle Feed Lots	8.15	8.13	8.04
Beef Cattle Except Feed Lots	na	8.25	7.96
Dairy Farms	8.64	8.57	8.58
Chicken Eggs	7.34	7.44	7.13
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.11	7.82	7.92
Total Agricultural Services	8.53	8.50	8.41
Soil Preparation Services	8.70	8.81	8.07
Crop Services	8.65	8.56	8.78
Plant Cultivate & Protection	8.42	8.52	8.36
Harvest Primarily by Machine	8.88	8.81	9.26
Preparation Services for Market	na	8.10	7.91
Cotton Ginning	8.65	8.80	9.57
Total Farm Labor & Management	8.25	8.14	8.38
Farm Labor Contractors	8.14	7.91	8.39
Farm Management Services	8.36	8.37	8.36

na = not available

NORTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	11.9	13.1	14.8
Total Agricultural Production/Crops	8.7	10.4	10.7
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.0	0.0	0.0
Cotton	0.0	0.0	0.0
Other Field Crops	0.0	0.0	0.0
Vegetables and Melons	1.9	2.0	0.2
Total Fruits and Tree Nuts	6.0	6.8	8.7
Berries	0.0	0.0	0.0
Grapes	5.2	6.5	7.7
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.4	0.2	0.8
Other Fruits & Nuts	0.4	0.1	0.1
Total Horticultural Specialties	0.2	0.3	1.6
Ornamental Floral & Nursery	0.2	0.3	1.4
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	0.6	1.3	0.2
Agricultural Production/Livestock	2.4	1.2	1.7
Beef Cattle Feed Lots	0.0	0.0	0.1
Beef Cattle Except Feed Lots	0.0	0.0	0.2
Dairy Farms	1.3	0.8	0.9
Chicken Eggs	0.7	0.1	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.4	0.3	0.3
Total Agricultural Services	0.8	1.5	2.4
Soil Preparation Services	0.0	0.0	0.0
Crop Services	0.0	0.0	0.1
Plant Cultivate & Protection	0.0	0.0	0.1
Harvest Primarily by Machine	0.0	0.0	0.0
Preparation Services for Market	0.0	0.0	0.0
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	0.8	1.5	2.3
Farm Labor Contractors	0.0	0.0	0.3
Farm Management Services	0.8	1.5	2.0

na = not available

Average Hourly Earnings (In dollars per hour)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	8.68	8.61	8.36
Total Agricultural Production/Crops	8.64	8.57	8.35
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	na	na	na
Cotton	na	na	na
Other Field Crops	na	na	na
Vegetables and Melons	8.70	8.67	8.40
Total Fruits and Tree Nuts	8.64	8.56	8.44
Berries	na	na	na
Grapes	8.60	8.58	8.44
Tree Nuts	na	na	8.30
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.68	8.58	8.35
Other Fruits & Nuts	8.64	8.52	8.68
Total Horticultural Specialties	8.69	8.67	8.48
Ornamental Floral & Nursery	8.69	8.67	8.68
Food Crops Grown Under Cover	na	na	8.27
General Farm Primarily Crop	8.54	8.36	8.08
Agricultural Production/Livestock	8.64	8.61	8.16
Beef Cattle Feed Lots	na	na	8.25
Beef Cattle Except Feed Lots	na	na	8.07
Dairy Farms	8.37	8.33	8.33
Chicken Eggs	8.50	8.49	8.10
Turkey & Turkey Eggs	na	na	7.64
Other Livestock	9.06	9.02	8.54
Total Agricultural Services	8.75	8.66	8.58
Soil Preparation Services	na	na	na
Crop Services	na	na	8.59
Plant Cultivate & Protection	na	na	8.59
Harvest Primarily by Machine	na	na	na
Preparation Services for Market	na	na	na
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.75	8.66	8.57
Farm Labor Contractors	na	na	8.33
Farm Management Services	8.75	8.66	8.81

SOUTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	61.4	53.3	63.7
Total Agricultural Production/Crops	41.2	38.6	46.2
Cash Grains	0.1	0.1	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.1	0.1	0.1
Field Crops Except Grains	0.8	0.8	0.2
Cotton	0.0	0.0	0.0
Other Field Crops	0.8	0.8	0.2
Vegetables and Melons	4.6	7.9	6.6
Total Fruits and Tree Nuts	17.4	12.5	17.6
Berries	8.6	6.3	12.3
Grapes	0.4	0.5	1.9
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	0.7	0.5	1.5
Deciduous Tree Fruit	0.5	0.4	0.1
Other Fruits & Nuts	7.2	4.8	1.7
Total Horticultural Specialties	16.2	15.4	18.3
Ornamental Floral & Nursery	15.7	15.0	17.5
Food Crops Grown Under Cover	0.5	0.4	0.8
General Farm Primarily Crop	2.1	1.9	3.4
Agricultural Production/Livestock	2.1	3.1	1.8
Beef Cattle Feed Lots	0.1	0.1	0.0
Beef Cattle Except Feed Lots	0.4	0.4	0.3
Dairy Farms	0.0	0.0	0.1
Chicken Eggs	0.8	1.8	0.4
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.8	0.8	1.0
Total Agricultural Services	18.1	11.6	15.7
Soil Preparation Services	0.0	0.0	0.2
Crop Services	2.1	1.5	2.7
Plant Cultivate & Protection	0.6	0.4	0.4
Harvest Primarily by Machine	0.0	0.0	0.2
Preparation Services for Market	1.5	1.1	2.1
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	16.0	10.1	12.8
Farm Labor Contractors	13.5	7.3	11.4
Farm Management Services	2.5	2.8	1.4

na = not available

Average Hourly Earnings (In dollars per hour)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	8.35	8.35	8.26
Total Agricultural Production/Crops	8.36	8.36	8.16
Cash Grains	8.63	8.68	8.50
Rice	na	na	na
Other Cash Grains	8.63	8.68	8.50
Field Crops Except Grains	8.58	8.57	8.27
Cotton	na	na	na
Other Field Crops	8.58	8.57	8.27
Vegetables and Melons	8.44	8.31	7.76
Total Fruits and Tree Nuts	8.24	8.10	7.88
Berries	7.43	7.92	7.33
Grapes	8.61	8.62	7.71
Tree Nuts	na	na	7.77
Citrus Fruits	8.53	8.38	8.48
Deciduous Tree Fruit	7.98	7.14	7.41
Other Fruits & Nuts	8.63	8.43	8.60
Total Horticultural Specialties	8.26	8.35	8.24
Ornamental Floral & Nursery	8.51	8.55	8.21
Food Crops Grown Under Cover	8.00	8.15	8.26
General Farm Primarily Crop	8.01	8.13	8.29
Agricultural Production/Livestock	8.23	8.30	8.26
Beef Cattle Feed Lots	8.19	8.26	na
Beef Cattle Except Feed Lots	8.58	8.65	8.73
Dairy Farms	na	na	8.63
Chicken Eggs	7.87	8.04	7.39
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.28	8.25	8.28
Total Agricultural Services	8.46	8.39	8.35
Soil Preparation Services	na	na	8.30
Crop Services	8.55	8.52	8.61
Plant Cultivate & Protection	8.93	8.87	8.82
Harvest Primarily by Machine	na	na	9.17
Preparation Services for Market	8.16	8.17	7.85
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.38	8.27	8.15
Farm Labor Contractors	8.15	8.02	7.81
Farm Management Services	8.61	8.51	8.48

SAN JOAQUIN AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	137.2	147.7	133.5
Total Agricultural Production/Crops	50.5	56.6	50.3
Cash Grains	4.3	0.5	0.6
Rice	0.5	0.2	0.1
Other Cash Grains	3.8	0.3	0.5
Field Crops Except Grains	4.9	4.3	6.3
Cotton	2.7	3.0	4.3
Other Field Crops	2.2	1.3	2.0
Vegetables and Melons	9.6	7.7	5.3
Total Fruits and Tree Nuts	22.6	29.5	24.5
Berries	0.0	0.0	0.1
Grapes	14.7	20.4	13.9
Tree Nuts	3.9	4.4	4.4
Citrus Fruits	0.5	0.8	1.7
Deciduous Tree Fruit	0.8	0.8	2.7
Other Fruits & Nuts	2.7	3.1	1.7
Total Horticultural Specialties	3.0	6.6	3.7
Ornamental Floral & Nursery	2.9	6.6	3.6
Food Crops Grown Under Cover	0.1	0.0	0.1
General Farm Primarily Crop	6.1	8.0	9.9
Agricultural Production/Livestock	15.5	12.9	16.9
Beef Cattle Feed Lots	0.8	0.6	0.4
Beef Cattle Except Feed Lots	1.3	1.1	1.6
Dairy Farms	8.7	10.0	11.8
Chicken Eggs	0.6	0.6	0.5
Turkey & Turkey Eggs	2.9	0.1	0.7
Other Livestock	1.2	0.5	1.9
Total Agricultural Services	71.2	78.2	66.3
Soil Preparation Services	0.3	0.4	0.6
Crop Services	18.8	22.1	19.7
Plant Cultivate & Protection	2.5	2.9	2.8
Harvest Primarily by Machine	0.4	0.5	1.8
Preparation Services for Market	15.4	18.0	14.6
Cotton Ginning	0.5	0.7	0.5
Total Farm Labor & Management	52.1	55.7	46.0
Farm Labor Contractors	47.9	52.1	42.3
Farm Management Services	4.2	3.6	3.7

na = not available

Average Hourly Earnings (In dollars per hour)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	8.32	8.28	8.14
Total Agricultural Production/Crops	8.21	8.16	7.99
Cash Grains	8.21	8.44	8.08
Rice	8.57	8.65	8.78
Other Cash Grains	7.84	8.23	7.37
Field Crops Except Grains	8.42	8.25	7.95
Cotton	8.38	8.21	7.85
Other Field Crops	8.46	8.28	8.05
Vegetables and Melons	8.10	8.04	7.96
Total Fruits and Tree Nuts	8.16	8.10	7.56
Berries	na	na	7.15
Grapes	8.36	8.22	7.66
Tree Nuts	8.03	8.09	7.86
Citrus Fruits	8.42	8.00	7.45
Deciduous Tree Fruit	7.99	7.93	7.48
Other Fruits & Nuts	7.98	8.26	7.76
Total Horticultural Specialties	8.31	8.13	8.16
Ornamental Floral & Nursery	8.47	8.13	8.04
Food Crops Grown Under Cover	8.14	na	8.27
General Farm Primarily Crop	8.09	8.00	8.23
Agricultural Production/Livestock	8.25	8.18	8.06
Beef Cattle Feed Lots	8.11	8.12	7.93
Beef Cattle Except Feed Lots	8.17	8.30	8.25
Dairy Farms	8.81	8.71	8.78
Chicken Eggs	7.63	7.29	7.15
Turkey & Turkey Eggs	7.92	7.84	7.64
Other Livestock	8.88	8.82	8.61
Total Agricultural Services	8.51	8.49	8.38
Soil Preparation Services	8.52	8.62	8.36
Crop Services	8.88	8.73	8.62
Plant Cultivate & Protection	8.86	8.66	8.63
Harvest Primarily by Machine	8.47	8.25	8.61
Preparation Services for Market	8.49	8.16	8.10
Cotton Ginning	9.68	9.84	9.13
Total Farm Labor & Management	8.13	8.13	8.18
Farm Labor Contractors	7.92	7.90	8.15
Farm Management Services	8.34	8.36	8.20

SACRAMENTO VALLEY AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	16.7	13.8	19.7
Total Agricultural Production/Crops	11.3	9.0	13.1
Cash Grains	0.7	0.5	1.3
Rice	0.6	0.4	1.0
Other Cash Grains	0.1	0.1	0.3
Field Crops Except Grains	0.5	0.4	0.5
Cotton	0.0	0.0	0.0
Other Field Crops	0.5	0.4	0.5
Vegetables and Melons	2.1	1.5	1.0
Total Fruits and Tree Nuts	3.8	4.0	6.3
Berries	0.0	0.0	0.0
Grapes	0.5	0.3	1.4
Tree Nuts	2.0	2.5	2.3
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.7	0.6	1.8
Other Fruits & Nuts	0.6	0.6	0.8
Total Horticultural Specialties	1.6	1.1	1.7
Ornamental Floral & Nursery	1.6	1.1	1.7
Food Crops Grown Under Cover	0.0	0.0	0.1
General Farm Primarily Crop	2.6	1.5	2.3
Agricultural Production/Livestock	0.7	0.6	1.6
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.1	0.1	0.5
Dairy Farms	0.1	0.1	0.5
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.5	0.4	0.6
Total Agricultural Services	4.7	4.2	5.0
Soil Preparation Services	0.0	0.1	0.1
Crop Services	2.6	2.3	2.1
Plant Cultivate & Protection	0.7	0.5	0.5
Harvest Primarily by Machine	0.4	0.3	0.2
Preparation Services for Market	1.5	1.5	1.4
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	2.1	1.8	2.8
Farm Labor Contractors	2.1	1.8	2.6
Farm Management Services	0.0	0.0	0.2

na = not available

Average Hourly Earnings (In dollars per hour)

Industry	Mar 2002	Feb 2002	Mar 2001
Total Agriculture	8.36	8.38	8.22
Total Agricultural Production/Crops	8.32	8.37	7.98
Cash Grains	8.38	8.47	8.27
Rice	8.48	8.59	8.40
Other Cash Grains	8.27	8.35	8.13
Field Crops Except Grains	8.26	8.36	8.08
Cotton	na	na	na
Other Field Crops	8.26	8.36	8.08
Vegetables and Melons	8.44	8.27	7.92
Total Fruits and Tree Nuts	8.22	8.27	7.73
Berries	na	na	na
Grapes	8.36	8.38	7.84
Tree Nuts	8.15	8.12	7.52
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.08	8.30	7.86
Other Fruits & Nuts	8.27	8.29	7.71
Total Horticultural Specialties	8.30	8.40	8.24
Ornamental Floral & Nursery	8.30	8.40	8.20
Food Crops Grown Under Cover	na	na	8.27
General Farm Primarily Crop	8.33	8.46	7.65
Agricultural Production/Livestock	8.36	8.35	8.45
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	8.24	8.26	8.21
Dairy Farms	8.45	8.51	8.83
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.40	8.29	8.32
Total Agricultural Services	8.40	8.41	8.23
Soil Preparation Services	na	8.66	8.30
Crop Services	8.57	8.41	8.43
Plant Cultivate & Protection	8.71	8.36	8.54
Harvest Primarily by Machine	8.69	8.58	8.54
Preparation Services for Market	8.32	8.30	8.21
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.22	8.17	7.95
Farm Labor Contractors	8.22	8.17	7.67
Farm Management Services	na	na	8.23

DATA NOTES

Data Sources:

These data are obtained from two sources: the Employment Development Department (EDD) Covered Employment and Wages (ES-202) data files and a monthly survey conducted by the California Agricultural Statistical Service (CASS) of the U.S. Department of Agriculture (USDA) and the Labor Market Information Division of EDD of 4,200 agricultural employers. The sample was selected to be representative of the state's agricultural employers by size, geographic location, and industry categories. Sample data are gathered for the survey week that includes the 12th calendar day of the month. All data in this bulletin represent activities taking place during this mid-month period. Same month prior year employment data are benchmarked to the ES-202 data files maintained by EDD.

Data Comments:

To aid in accurate usage and interpretation of the data, please note the following:

- **Agricultural Services employment survey data may be recalculated; historical trend information is used to adjust sample data when low response rates occur.**
- Regional data may show greater variability than statewide data because of small sample size and variable reporting patterns in specific industries.
- Current month regional estimates are based on the recorded addresses of owner-operators. Same month prior year regional data are based on worksite locations. Significant differences between regional current month and same month prior year data could result, although statewide totals might be comparable.
- Where data cannot be estimated because of inadequate sample reporting, the letters "na" have been entered into the field to indicate estimates are not available.
- Wage data include wages of supervisors and hired non-production workers (primarily administrative personnel). Piece rate data are also included where applicable.
- Fishing, forestry, and hunting industry data are not included in the Agricultural Services estimates. Unique seasonal industry patterns of employment make producing employment estimates for these industries problematic.
- Employment data do not include employers of unpaid family workers.
- Agricultural workers who are employed by farm labor contractors are reported in Agricultural Services under that industry category. Employment levels in Crop Production and Livestock Production do not reflect their activities in the associated industries that contract with the farm labor contractors.

Total agricultural employment and hourly earnings estimates in this bulletin are derived from the monthly Current Employment Statistics for Agriculture project. Estimates in this bulletin will differ from other agricultural estimates published by EDD and the USDA because of differences in the number of industries covered and in the definition of agricultural workers.

Subscriptions:

Annual subscriptions are available for \$30.00 per year. Ask for publication number LAU-15. To subscribe or for information, please call (916) 262-2162 or write to:

Employment Development Department
Labor Market Information Division
Publications Information Unit
7000 Franklin Blvd., Building 1100
Sacramento, CA 95823

The Agricultural Bulletin is also available on our Internet website at <http://www.calmis.ca.gov>.